

Work Order ID 151278

Monday, September 19, 2016 4:13:03 PM

151278

Page 1

Item ID: D139-1012-011 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: URF 16-636 Stop ***NS2***
Item Name: AW139 High Capacity Cargo Net
Start Date: 9/19/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 9/19/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference: ERA - TEST FIT FOR ENGINEERING

Approvals: Process Plan: Em Date: 16/09/19 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D139-1012-011	A								

120 Pick Kit 0.00

120

Packaging

Memo

0.00

Packaging

PULL FROM STOCK D139-1012-011 B145103

REMOVE x 1 D139-1012-041 B142012 AND PUT IN QUARANTINE

REPLACE x 1 D139-1012-041 WITH B148479

PUT D139-1012-011 IN STOCK UNDER NEW BATCH

SMB
16/09/19

130 QC4- 100% Inspect kits for completeness 0.00

130

QC

Memo

0.00

Quality Control

7.10 16/09/19

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Work Order ID 151278***151278***

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Monday, September 19, 2016 4:13:03 PM

Item ID: D139-1012-011 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: URF 16-636 Stop ***NS2***
Item Name: AW139 High Capacity Cargo Net
Start Date: 9/19/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 9/19/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference: ERA - TEST FIT FOR ENGINEERING

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140		0.00							
140									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D139-1012-011 Location: _____ PPP Rev: _____								
150	QC21- Final Inspection - Work Order Release	0.00							
150									
QC	Memo	0.00							
Quality Control									

m.10 / Smb 16/09/19

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Page 1

Monday, September 19, 2016 4:13:21 PM

Work Order ID: 151278

151278

Parent Item: D139-1012-011

D139-1012-011

Parent Item Name: AW139 High Capacity Cargo Net

Start Date: 9/19/2016

Required Date: 9/19/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 16.04.27 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D139-1012-011		Manufactured	No				Each	1.0000		1			
D139-1012-011									**				
AW139 High Capacity Cargo Net													
				<u>Location</u>			<u>Loc Qty</u>			<u>Loc Code</u>			
				FG019			1						
					145104		1						
D139-1012-041		Manufactured	No				Each	1.0000		1			
D139-1012-041									**				
AW139 Cargo Net Assembly													
				<u>Location</u>			<u>Loc Qty</u>			<u>Loc Code</u>			
				prelim			1						
					148479		1						
D139-1012-041		Manufactured	No				Each	1.0000		-1			
D139-1012-041									**				
AW139 Cargo Net Assembly													
				<u>Location</u>			<u>Loc Qty</u>			<u>Loc Code</u>			
				prelim			1						
					148479		1						

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

List Lots

Page 1 of 1

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Criteria : Item ID: d139-1012-011 All Locations All Warehouses All Quantity

Item ID Item Name	Warehouse ID Location ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt Lot Code	Type Code	Comments
D139-1012-011 AW139 High Capacity Cargo Net	Main Warehouse FG019	145103	8/2/2016	1.0000	QC21	CHG001	
	Main Warehouse FG019	145104	8/2/2016	1.0000	QC21	CHG001	
Total:				2.0000			

w/o 151278.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER :							
Misidentified ☐	☐ Past Due								

Work Order ID 145103

Tuesday, May 03, 2016 1:50:22 PM

145103

Page 1

Item ID: D139-1012-011 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: AW139 High Capacity Cargo Net
 Start Date: 5/6/2016 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 6/10/2016 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: MCS Date: MAY 03 2016 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr	DAS							
D139-1012-011	A	10 9-89	DAS 6						
110	Document Control	0.00							

110

DC

Doc.Control -USB or Paperwork

Memo

0.00

Photocopy bluefile and create labels as per PPP D139-1012-011 chg 001

DAS

27

9-89

AUG 02 2016

120

Pick Kit

0.00

120

Packaging

Packaging

Memo

0.00

① PC

DAS

28

9-89

AUG 02 2016

130

QC4- 100% Inspect kits for completeness

0.00

130

QC

Quality Control

Memo

0.00

DAS

27

9-89

AUG 02 2016

Work Order ID 145103***145103***

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Item ID: D139-1012-011

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: AW139 High Capacity Cargo Net

Start Date: 5/6/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 6/10/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140		0.00							
140									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D139-1012-011								
	Location: _____								
	PPP Rev: _____								
150	QC21- Final Inspection - Work Order Release	0.00							
150									
QC	Memo	0.00							
Quality Control									

DAS
28
9-89DAS
27
9-89

AUG 02 2016

16/08/12
sem 16/08/02

Tuesday, May 03, 2016 1:50:25 PM

145103

D139-1012-011

Required Date: 6/10/2016

Required Qty: 1.00

Comments: IPP REV:A 16.04.27 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued DAS	Status
D139-1012-041 *D139-1012-041* AW139 Cargo Net Assembly		Manufactured	No				Each	0.0000		1		6 9-89	DAS 28 9-89
D5320-043 *D5320-043* D-Ring Assembly		Manufactured	No				Each	0.0000		7		6 9-89	DAS 28 9-89
D5339-1 *D5339-1* Carabiner Clip		Manufactured	No				Each	50.0000		4		6 9-89	DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				ST162			50						
				144002			50						
D5397-1 *D5397-1* D Ring		Manufactured	No				Each	6.0000		4		6 9-89	DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				ST164			6						
				143978			6						
D5408-1 *D5408-1* Suspension Rope		Manufactured	No				f	0.0000		1		6 9-89	DAS 28 9-89
D5409-1 *D5409-1* Placard		Manufactured	No				Each	0.0000		2		6 9-89	DAS 28 9-89
D5409-3 *D5409-3* Placard		Manufactured	No				Each	0.0000		2		6 9-89	DAS 28 9-89

Picklist Print

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Work Order ID: 145103

Parent Item: D139-1012-011

Parent Item Name: AW139 High Capacity Cargo Net

145103

D139-1012-011

Start Date: 5/6/2016

Required Date: 6/10/2016

Start Qty: 1.00

Required Qty: 1.00

AN526-10R12 *ANS 26 1032 R12* Purchased No

Each 0.0000

**

~~*AN526-10R12*~~

Screw

AN970-3

~~*AN970-3*~~

Washers

Purchased No

Each 223.0000

**

Location

Loc Qty

Loc Code

ST260a

198

m129630

198

ST321

25

m128057

25

Each 163.0000

**

MS21059L3

Purchased No

~~*MS21059L3*~~

Nut Plate

Location

Loc Qty

Loc Code

CA

8

M129682

8

GA

18

M133990

18

ST301

111

M134055

15

M134257

50

M134509

46

ST303

26

M133016

26

Each 71.0000

**

MS24665-136

Purchased No

~~*MS24665-136*~~

Cotter Pins

DAS 27 9-89

Location

Loc Qty

Loc Code

ST289

71

2421

71

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Shop Packet Print

Page 2

Tuesday, May 03, 2016 1:50:22 PM

Item ID: D139-1012-011

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: AW139 High Capacity Cargo Net

Start Date: 5/6/2016 **Start Qty:** 1.00

1

Cust Item ID:

Required Date: 6/10/2016 **Req'd Qty:** 1.00

1

Customer:

Reference:

Approvals: Process Plan: MLS Date: MAY 03 2016

Tooling:

Date:

Run Start *NR1*

OC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

[illegible]

REFERENCE ONLY

4.0 WEIGHT AND BALANCE

The following weight and balance is for the Dart installation. The weight and balance of parts that are removed from the aircraft to perform this installation are the responsibility of the installer.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D139-1012-011 CARGO NET INSTALLATION	28.8 lb 13.0 kg	±0.0 in ±0.0 m	±0.0 in lb ±0.0 m kg	280 in 7.11 m	8064 lb in 92.4 kg m

5.0 PARTS LIST

Qty -011	Part Number	Description
X	D139-1012-011	CARGO NET INSTALLATION
1	D139-1012-041	CARGO NET ASSY
7	D5320-043	D-RING ASSEMBLY
4	D5339-1	CARABINER CLIP
4	D5397-1	D-RING
1	D5408-1	SUSPENSION ROPE
2	D5409-1	PLACARD
2	D5409-3	PLACARD
4	AN526-10R12	SCREW
4	AN970-3	WASHER
2	MS21059L3	NUT PLATE
7	MS24665-136	COTTER PIN

4.0 WEIGHT AND BALANCE

The following weight and balance is for the Dart installation. The weight and balance of parts that are removed from the aircraft to perform this installation are the responsibility of the installer.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D139-1012-011 CARGO NET INSTALLATION	28.8 lb 13.0 kg	±0.0 in ±0.0 m	±0.0 in lb ±0.0 m kg	280 in 7.11 m	8064 lb in 92.4 kg m

5.0 PARTS LIST

Qty -011	Part Number	Description
X	D139-1012-011	CARGO NET INSTALLATION
1	D139-1012-041	CARGO NET ASSY
7	D5320-043	D-RING ASSEMBLY
4	D5339-1	CARABINER CLIP
4	D5397-1	D-RING
1	D5408-1	SUSPENSION ROPE
2	D5409-1	PLACARD
2	D5409-3	PLACARD
4	AN526-10R12	SCREW
4	AN970-3	WASHER
2	MS21059L3	NUT PLATE
7	MS24665-136	COTTER PIN